

*Title:* **Efficiency Study of a Pharmaceutical Production Plant**

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In a Pharmaceutical industry there are many aspects to consider for the correct functioning of it. But in a factory, it can be seen that do the right thing is not always possible because there are non-programmed situations that makes difficult work correctly.

It will be studied the process of pharmaceutical manufacturing from the arrival of the raw material to the final conditioning, and then it will be observed specifically the dosage for its improvement. How it can improve dosage process? How it can increase dosage performance? How it can get better situation for workers?

Through the Lean Manufacturing study, it will be answered these questions and it will be proposed changes that makes better the process.

Lean Manufacturing is a work philosophy that search the way to get better and optimize productions systems removing "waste". In this case waste is any action, activity or process that use more than necessary resources. How it can be differentiated this kind of activities? Because of there are the activities which provide nothing for the client neither advance production process.

As a result, an organisation that uses the Lean Manufacturing, it should adjust its production to demand, in moment and with the amounts that are demanded. According, Lean Manufacturing can be described like a production philosophy that group a set of techniques that makes us easier design a system of producing and supply depending on demand, with the minimum cost and high quality.